

Part Number: 9207NH

Computer Cable for EIA RS-232 Applications

Product Description

20 AWG stranded (7x28) one tinned copper conductor, one bare copper conductor, polyethylene insulation, polyethylene inner jacket, Duofoil® (100% coverage) plus a tinned copper braid shield (85% coverage), LSZH outer jacket, Flame resistance IEC 60332-3C

Technical Specifications

Product Overview

Environmental Space:	Indoor - Euroclass Eca
Suitable Applications:	Twinaxial instrumentation and computer cable; For data transmission applications

Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	No. of Conductors
Insulated conductor A	20	7x28	BC - Bare Copper	1
Insulated conductor B	20	7xAWG28	TC - Tinned Copper	1

Conductor Count:	2
Total Number of Pairs:	1
Conductor Size:	20 AWG

Insulation

Element	Material	Nominal Diameter	Diameter +/- Tolerance
Insulated conductor A	Polyethylene	2.11 mm	0.08 mm
Insulated conductor B	Polyethylene	2.11 mm	0.08 mm

Color Chart

Number	Color
Insulated conductor A	Clear
Insulated conductor B	Clear

Outer Shield Material

Type	Material	Material Trade Name	Coverage [%]	Thickness of Foil
Tape	Aluminum/Polyester/Aluminum	Duofoil®		9 / 23 / 9 µm
Braid	TC - Tinned Copper		85 %	

Outer Jacket Material

Material	Color	Nominal Diameter	Nominal Wall Thickness
LSZH / FRNC	Black	8.6 mm	0.89 mm

Construction and Dimensions

Cabling

Description
2 wires twisted to cable core

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
31.2 Ohm/km	6.6 Ohm/km

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Shield
47.6 pF/m	75.5 pF/m

Inductance

Nominal Inductance
0.51 µH/m

Impedance

Nominal Characteristic Impedance
100 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.98 dB/100m
10 MHz	3.94 dB/100m
50 MHz	9.19 dB/100m
100 MHz	13.45 dB/100m
200 MHz	21 dB/100m
400 MHz	33.46 dB/100m

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
510 ns/ft	66 %

Voltage

Voltage Rating [V]
300 V

Temperature Range

Installation Temp Range:	-15°C To +80°C
Storage Temp Range:	-45°C To +80°C
Operating Temp Range (Flexible Install):	-15°C To +80°C
Operating Temp Range (Fixed Install):	-45°C To +80°C

Mechanical Characteristics

Oil Resistance:	ASTMD741
Min Bend Radius During Installation:	86 mm

Standards

CPR Euroclass:	Eca
Other Specification:	BS 7655 section 6.1 table 1, LTS 3

Applicable Environmental and Other Programs

EU RoHS Compliance Date (yyyy-mm-dd):	1998-01-01

Flammability, LS0H, Toxicity Testing

ISO/IEC Flammability:	IEC 60332-3-24
Amount of Halogen acc. to IEC 60754-1 & EN50267-1:	Zero

Part Number

Variants

Item #	Color
9207NH.00100	Black
9207NH.001000	Black
9207NH.00152	Black
9207NH.00305	Black

9207NH.00500	Black
9207NH.011000	Gray
9207NH.01250	Gray

History

Revision Number:	4

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